HEALTHCARE
Imaging >
Global Support Operations

Technical Documentation

Order-No.: DD+DIS159.02E

1 Piece VEFVR MA1

ADC System Components

Type 4406

Installation Instructions

Please file this document in section 3
of your Technical Documentation.

Fresh Installation:

VIPS 1.2.00

for the ADC Processing Station

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1 General Information

The “Fresh Installation” is necessary if you do not purchase the hardware of the Processing Station via AGFA.

If purchased via AGFA everything is installed and configured according to the order.

“Fresh Installation” is also carried out

- After hard disk replacement
- To “Upgrade” a System if images are no longer needed
- To create a virgin System without old configurations

Please find “Considerations for Fresh Installation at a site where an older VIPS Version is already installed” in paragraph 4 of this section.

1.1 Software Prerequisites

ADC Compact DIGITIZER:	≥ COP_1308
ADC Solo DIGITIZER	≥ SOL_1302
PRID (Preview & identification SW)	≥ PRID 1.2.09

1.2 Hardware Prerequisites

Experience has shown that 128 MB RAM is the absolute minimum for the Processing Station.

However, for a good performance (UI speed, UI stability) 256 MB RAM memory is recommended. The Processing Stations coming from AGFA are equipped with 256 MB RAM.

The system is only tested with 27 GB hard disk space for images. AGFA does not guarantee a smooth working, if more hard disk space for images is used.

At least a 2 GB HD is needed to store the Operating System and the Application plus approximately 100 images.

1.3 Required Time for the Installation

Approximately 60 minutes.

1.4 Release Environment

These versions on the hardcopy devices and the IMPAX Stations (and subsequent releases respectively) guarantee that all functions on the Processing Station are supported properly. Other combinations have not been tested and may result in restrictions in functionality.

LR5200	≥ LTP01901
LR5200 Controller	≥ AOS32946/C ≥ CAD32946/C ≥ ECU32947/C
DICOM	≥ DCM2.3.4/C
IMPAX	≥ R3.5_v.2.4.0/C

Connection to third party PACS-systems and printers are continuously enhanced.

Please follow the connectivity release notes to get the latest update.

2 Installation of VIPS 1.2.00

Do not connect additional UPS at this time. The installation of these devices is described in section 9 of this Service Documentation (System Components).

The Processing Station software comprises of two CD-ROMs:

- MIMOSA Operating System (AGOS.A.0.8.00)
- MIMOSA Software (VIPS1.2.00)

For Installation you need the **hostname**, if it is used the **subnet mask** and **the IP Address** of the workstation where the installation is carried out.
You can look up this information at the CPF file (e.g. take the CPF file from the PRID Station and have a look at its network table with the CCM tool).

Note about how to read this instruction:

- The actual instruction is in the left column
- The right column shows displays or gives comments only.
- You have to read the instruction in a 'zigzag' line

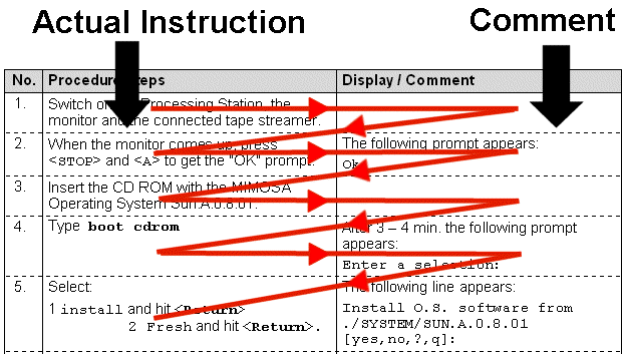


Figure 1

Installation Procedure

No.	Procedure Steps	Display / Comment
1.	Switch on the Processing Station, the monitor and the connected tape streamer.	
2.	When the monitor comes up, press **<STOP>** and **<A>** to get the "OK" prompt.	The following prompt appears: `Ok`
3.	Insert the CD ROM with the MIMOSA Operating System AGOS.A.0.8.00.	
4.	Type **`boot cdrom`**	After 3 – 4 min. the following prompt appears: `Enter a selection:`
5.	Select: 1 `install` and hit **<Return>** 2 `Fresh` and hit **<Return>**.	The following line appears: `Install O.S. software from ./SYSTEM/SUN.A.0.8.01 [yes,no,?,q]:`
6.	Type **`Yes`**	The Solaris installation program starts. The following window appears: `The Solaris Installation Program`

No.	Procedure Steps	Display / Comment
7.	Click **<Continue>**	The following window appears: `Identify This System`
8.	Click **<Continue>**	The following window appears: `Network Connectivity`
9.	Click **<Yes>** and **<Continue>**	The `Primary Network Interface` window appears only with **ULTRA SPARC 1 hardware** and if a fast Ethernet board is installed. Here you can select **hme0 (=100 mbit / 10mbit auto sensing)** or **le0 (=10 mbit onboard)**. We recommend to select hme0.
10.	Click **<hme0>** and **<Continue>**	The following window appears: `Use DHCP`
11.	Click **<No>** and **<Continue>**	The following window appears: `Hostname`
12.	Enter the hostname and click **<Continue>**	The following window appears: `IP address`
13.	Enter the IP address and click **<Continue>**	The following window appears: `Enable Ipv6`

The hostname, IP address and subnet mask (if used) you are entering during installation can still be corrected with restoring of the site specific backup or installation of the cpf file.

14.	Select **<No>** and click **<Continue>**	The following window appears: `Confirm information`
15.	Check if entries are correct and click **<Continue>**	The following window appears: `Configure Kerberos Security`
16.	Select **<No>** and click **<Continue>**	The following window appears: `Confirm`
17.	Check if the entries are correct and confirm by clicking **<Continue>**	The following window appears: `Name service`
18.	Select **<None>** and click **<Continue>**	The following window appears: `Confirm`
19.	Check if the entries are correct and confirm by hitting **<Continue>**	The following window appears: `Subnet`
20.	If a subnet mask is used click **<Yes>** and then enter the subnet mask otherwise click **<No>** and **<Continue>**	The following window appears: `Time Zone`
21.	Select **<Geographic region>** and click **<Set>**	The following window appears: `Geographic region`

No.	Procedure Steps	Display / Comment
22.	Select **<Local Region>** and **<Time Zone>** and click **<Continue>**	The following window appears: `Date and Time`
23.	Modify **<Date>** and **<Time>** if not correct and click **<Continue>**	The following window appears: `Confirm information`

24.	Check if the entries are correct and confirm by clicking **<Continue>**	Successful system configuration is confirmed by the message:
		`System identification is completed.`
		Now the Solaris operating system files are copied to the Processing Station. After about 20 minutes it will be rebooted automatically. After a few minutes the following message is displayed.
		`Please log on as root and enter:`
		`/mimosa.install`

25.	Hit **<Return>** to continue	The login prompt appears: `Vips220 console login:`
26.	Enter **root**	The following prompt appears: # `Password:`
27.	Enter the root password	
28.	Enter **/mimosa.install**	The following line appears: `OK to run with option install [yes, no, ?, q]:`
29.	Type **yes**	The installation of necessary OS patches starts. (`Hit enter to continue` may appear. Hit **<enter>** then) The CD-ROM is ejected after this step automatically. The following line appears: `***Put the CD into the CDplayer and hit <return>***`
30.	Insert CD-ROM with MIMOSA Software VIPS1.2.00. Please wait a few seconds until the CD-ROM is mounted. Press **<Return>**	The following line appears after 5-10 min.: `Install SW from ./MIMOSA/VIPS1200 [yes, no, ?, q]:`

31.	Type **yes**	The following line appears (after about 10 minutes):
		`New disk detected on SCSI-ID 0 (Controller 0). Disk name = c0t0d0`
		`> Indicate the purpose of this disk (images/other)?`

32.	Type **i**	The following line appears: `<Format & initialize the image disk.`

No.	Procedure Steps	Display / Comment
33.	Enter **yes**	The following line appears: `Ok to reboot:`

If further external hard disks are detected procedure steps 31 and 32 are repeated

34.	Enter **yes**	The system reboots.
		After 2-3 min. the site data screen appears:
		`/ Name of Installer >`
		`/ Installation Date >`
		`/ Serial number >`
		`/ Site Address >`
		`/ Site name >`
		`/ Department name >`
		`/ Country >`
		`/ Comment >`

The following message may appear, depending on the used hardware:
`Would you like to run the system flash PROM update now? (By default not to be updated)`
`Enter <No>`

35.	Fill in the installation data:	Serial number: 8 characters on the back of sun station, e.g. 637M1459. After filling in all the data the following line appears: `Any change (N/Y)?`
36.	If all data is correct type **N**	Booting continues.

When the User Interface starts, the warning „NO LICENSE for MIMOSA Software“ appears.

37.	Unlock screen by entering the application password: **********	User Interface is active now. Continue with “3 Further Steps for Start up”

3 Further Steps for Start up

This chapter describes the further installation steps to finish up with the Fresh Installation:

- Installing the Language Files.
- Installing Printer Definition Files
- Installation of external hard disks and UPS
- Create a site specific backup.

3.1 Installing the Language Files

With this upgrade the language files are not saved. Therefore they have to be reinstalled.

No.	Procedure Steps	Display / Comment
1.	Go to **<Maintenance>**, enter password and hit **<Return>**	
2.	Insert language disk	
3.	Select: **2** to select **Install** and hit **<Return>** **7** to select **Languages** and hit **<Return>** **1** to select **CopyLanguages** and hit **<Return>** **4** to select **FloppyEject** and hit **<Return>**	`All language files will be loaded.` `(Appearing warnings can be ignored.)`
4.	Remove the floppy	
5.	Exit **<Maintenance>**	

The language selection is done via CCM tool. The desired language will only be displayed after installation of the CPF file.

3.2 Installation of Printer Definition Files

Find more general information about P.D.F in Section 6.2 “Description of the Printer Definition Files” of this Service Documentation.

Make sure you are installing a set of printer definition files (PDF) that is compatible with the cpf-file that is used on this system

Current configuration:

- Printer definition file floppy PRN.A.3.0.02
- CCM – tool 1.1.06
- VIPS 1.2.00

3.2.1 Installation on the Processing Station

The upgrade of the set of P.D.F.s in your VIPS software may make it necessary to redo some printer settings in the cpf-file with CCM.1.1.06. Please consider that if you have printing problems after the upgrade, redo the cpf-file with CCM 1.1.06

No.	Procedure Steps	Display / Comment
1.	Go to **<Maintenance>**, enter password and hit **<Return>**	
2.	Insert "Printer definition files" floppy disk	
3.	Select: **2** to select **Install** and hit **<Return>** **8** to select **Printers** and hit **<Return>** **1** to select **CopyPrinters** and hit **<Return>**	Files are copied. You are asked to confirm every file that has to be overwritten.
4.	Exit **<Maintenance>**	

3.2.2 Installation on CCM.1.1.06

CCM.1.1.06 requires the installation of P.D.F - PRN.A.3.0.02

No.	Procedure Steps	Display / Comment
1.	Start CCM.1.1.06 tool on your Serice PC	
2.	Click button **<Destinations configuration>**	
3.	Click button **<Hardcopy>**	

No.	Procedure Steps	Display / Comment
4.	Insert Printer definition file floppy PRN.A.3.0.02 into floppy drive	
5.	Click button **<Read new printer definition file from drive A:>**	Comparison of current version and version on floppy takes place
6.	Click **<Yes>** to import from floppy	Printer definition files successfully imported
7.	Click **<Ok>**	
8.	Restart CCM.1.1.06 tool to integrate the new file	

3.2.3 Preparing the cpf-file

If the site uses 'Non MG3 printers'* also changes in the cpf-file are necessary to complete the installation.

Use CCM-Tool version 1.1.06 or higher. Before use, the tool must be provided with the most recent film sizes table, which can be found on the printer definition file floppy, which is part of VIPS release, or can be downloaded from MEDNET.

* 'MG3 printers' are printers using the 'old style' .mg3 layouts, like Drystar 2000, Drystar 3000 and LR5200.
'Non MG3 printers' are all other printers, like e.g. Drystar 4500.

3.3 Installing the Configuration File adc.cpf

No.	Procedure Steps	Display / Comment
1.	Insert the floppy disk with the configuration file " adc.cpf".	
2.	Click **<Controller>**	
3.	Select **<Maintenance>** in the controller pull-down menu	
4.	Enter maintenance password and hit **<Return>**	
5.	Select **2** `Install` and hit **<Return>** **1** `Cpf-file` and hit **<Return>** **2** `from floppy` and hit **<Return>**	`OK to continue?`
6.	Enter **yes**	Configuration file adc.cpf is copied and parsed. This may take a few minutes. After finishing the following line appears: `Enter selection (//to exit) [?,??,q]`
7.	Enter **q**	
8.	Select **9** `Hostname` and hit **<Return>**	`Are you ready to proceed?`
9.	Enter **yes**	MIMOSA is stopped. A list of possible ip_addresses / hostnames is displayed. `/NetConfig : Enter a number (<return> to reboot) >`
10.	Choose an IP_ address/hostname you want to set for the Processing Station (enter the number) and hit **<Return>**	`/NetConfig : OK to change to <...> (Y/N)`
11.	Enter **yes**	`/NetConfig : Enter return to reboot the system.`
12.	Hit **<Return>**	The Processing Station is rebooted now.
13.	Connect the Processing Station to the Ethernet.	Configuration of the Processing Station is finished.

3.4 Limiting image storage

If the system has a hard disk space that is much larger than necessary for the amount of images the customer wants to have available, performance can be improved by limiting the image partition size.

No.	Procedure Steps	Display / Comment
1.	Select: **2** to select **`Install`** and hit **`<Return>`** **3** to select **`Hardware`** and hit **`<Return>`** **1** to select **`Harddisk`** and hit **`<Return>`** **4** to select **`Disklimit`** and hit **`<Return>`**	The default value on a freshly installed system is '0', which means no maximum is set. The default maximum value is '27' GB (which is the maximum size VIPS is specified to work with). If your hard disk size is smaller than 27 GB, e.g. 18 GB, only values lower than '18' have an effect on the image storage size. Per image 7 MB can be assumed so if you want to limit it e.g. on about 1000 images you have to set value ´7´ (i.e. your image partition will only use 7 GB for storing images). `Do you want the disk limit enabled ?`
2.	Enter **`< yes >`**	`Disk Size Limit [default 27 | current 0] [1-27,?,q]`
3.	Enter **`< 7 >`** e.g.!	If you want to verify your set size, enter again `4 Disklimit` The set size will be shown.

3.5 Automatic reboot

The system will be more stable if it is regularly rebooted. Depending on the availability needs of the customer, the reboot can be set to be done daily, weekly or monthly at a specific day and time.

The default values are:

- Autoreboot: on
- Reboot frequency: Once a week
- Reboot day: Monday

No.	Procedure Steps	Display / Comment

1.	Select:
	2 to select **`Install`** and hit **`<Return>`**
	6 to select **`TimeSettings`** and hit **`<Return>`**
	4 to select **`ConfigureReboot`** and hit **`<Return>`**
	4 to select **`Disklimit`** and hit **`<Return>`**
		The following text appears:
		`The system is currently rebooted automatically...`
		`...weekly on day 1 at 1:45`
		`Do you want to change this settings? yes/no [default no] [yes,no,?,q]`

2.	Enter **`<yes>`** for changing the settings	`Autoreboot on/off [default on | current on] [on,off,?,q]`
3.	Enter **`<on>`**, if not already set	`Time of the day (24h-format=HH:MM) [default 01:45 | current 1:45] [?,q]`
4.	Enter requested reboot time	`Reboot Frequency [default weekly | current weekly] [daily,weekly,monthly,?,q]`
5.	Enter requested reboot frequency	`Day of the week (Sunday=0..Saturday=6) [default 1 | current 1] [0-6,?,q]`
6.	Enter requested day of the week	
7.	To make settings active carry out a reboot of the system	

3.6 Switching from NIP to XIL Interpolation

NIP (**N**euron **I**nter**p**olation) interpolation is the 'old style' interpolation used in MG3000. It is CPU time and RAM consuming but gives sharper images for Drystar 4500.

XIL (X-Windows Interpolation) is the interpolation method that is less CPU time consuming. It should be used whenever no Drystar 4500 is in the network.

After installing VIPS 1.2.00 the interpolation mode is set to NIP. The following steps can be skipped if the interpolation mode should stay NIP.

No.	Procedure Steps	Display / Comment

1.	Select:
	2 to select **`Install`** and hit **`<Return>`**
	13 to select **`Interpol`** and hit **`<Return>`**
		The following text appears:
		`Currently using NIP interpolation`
		`Use NIP or XIL [NIP, XIL, ?,q]`

2.	Enter **`<XIL>`** for selecting this interpolation mode.	`Interpolation set to XIL (after reboot)`
3.	After the mode is changed, hit **`<q>`** to times	
4.	To make change active carry out a reboot of the system	

3.7 Configuring the L/R annotation

If the customer is going to use the Advanced Annotation license, then the L/R annotations have to be configured. This is done via the MIMOSA UI Controller – System Monitoring – Set up – L&R Annotation.

3.8 Installation of external hard disks and UPS

For the installation of external hard disks and UPS see Section 9, Accessories.

3.9 Create a site specific backup

No.	Procedure Steps	Display / Comment
1.	Go to **<Maintenance>** and hit **<Return>**	
2.	Insert an empty floppy disk	
3.	Select: **2** to select **Install** and hit **<Return>** **10** to select **Backup** and hit **<Return>** **1** to select **SiteSpecific** and hit **<Return>**	`Save Area backup on floppy or tape [floppy,tape,?,q]:`
4.	enter **f** for `floppy`	
5.	After the backup is finished, hit **q** two times to quit.	
6.	Select: **4** to select **Tools** and hit **<Return>** **8** to select **FloppyEject** and hit **<Return>**	The `Open Windows` message may appear (This message also appears during first login/logout): Activate `check here to disable this message` and click `<continue>`.
7.	Remove floppy from floppy drive	
8.	Hit **q** two times to quit `Tools` menu	
9.	Exit **<Maintenance>**	
10.	Label backup floppy with the following data and store it in a save place:	

Label:

Site specific backup of:	*<hostname>*
For Version:	VIPS.1.2.00
Name:	*<Your Name>*
Date:	*<Current date>*

4 Consideration for Fresh Installation at a site where an older VIPS Version is already installed

In case a fresh installation will be done and the existing configuration should be used again, or the existing configuration should be transferred to another newly installed VIPS system: Save the site specific backup (Save Area backup) before the installation and copy it again after installation.

The procedure is as followed:

Neglecting steps 10 and 11 will make you end up with a system that will not even start the MIMOSA software anymore!!

No.	Procedure Steps	Display / Comment
1.	Go to **<Maintenance>** and hit **<Return>**	
2.	Insert an empty floppy disk	
3.	Select: **2** to select **Install** and hit **<Return>** **10** to select **Backup** and hit **<Return>** **1** to select **SiteSpecific** and hit **<Return>**	`Save Area backup on floppy or tape [floppy,tape,?,q]:`
4.	Enter **f** for `floppy`	
5.	After the backup is finished, hit **q** two times to quit.	
6.	Copy the CPF file from the system on floppy (you can use the same floppy)	
7.	Carry out the Fresh Installation - described in Service Manual -	
8.	Install the CPF file on the fresh installed system Insert the floppy disk created before	
9.	Go to **<Maintenance>** and hit **<Return>**	
10.	Select: **2** to select **Install** and hit **<Return>** **1** to select **CPF file** and hit **<Return>** **2** to select **from floppy** and hit **<Return>**	

No.	Procedure Steps	Display / Comment
11.	Change the host name Select: **2** to select **`Install`** and hit **`<Return>`** **9** to select **`hostname`** and hit **`<Return>`**	
12.	Copy the former Save Area from floppy Select: **3** to select **`Repair`** and hit **`<Return>`** **10** to select **`AddOptions`** and hit **`<Return>`** **1** to select **`Restore`** and hit **`<Return>`** **1** to select **`site specific`** and hit **`<Return>`**	

5 Printer Set-Up for True Size Printing

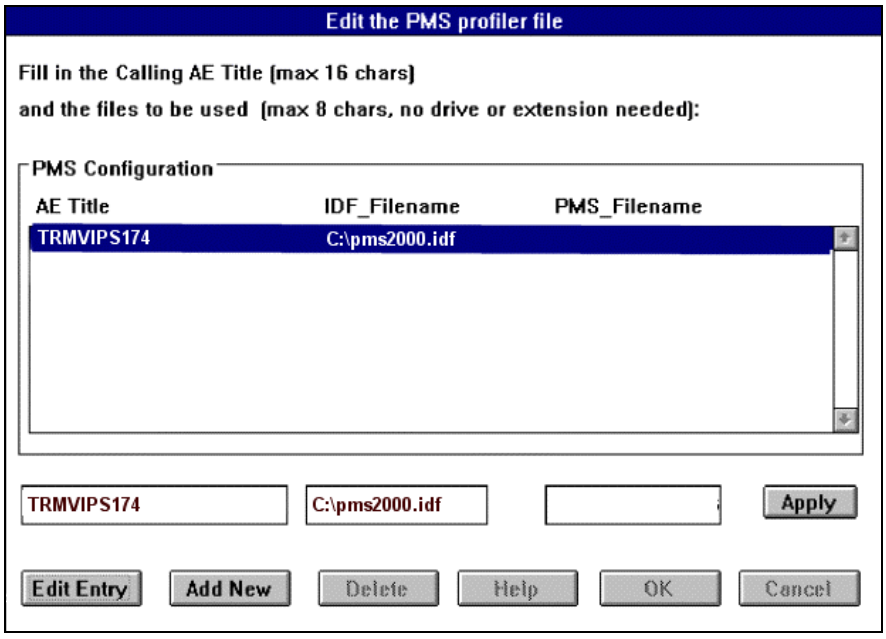
To enable correct True Size Print, you have to adapt your LR 3300 and LR5200 controller, DI2000 and DI3000 printer. The file pms.ini on D: partition has to be created/modified.

You have to add the following lines:

[AE-title of VIPS Station]
IDF=C:/PMSxxxx.IDF*

* PMS2000.IDF at DI3000 / LR3300 / LR5200
PMS_DI20.IDF at DI2000

Add the entry into the file by using the IMOS DCM like in the following example:



In the example the AE-Title of the Processing Station is [TRMVIPS174].

For each Processing Station in the network, which uses True Size Printing, you have to create these two entries in your pms.ini file.